

PAULOV, S.

The appearance of new proteins in the serum of irradiated rabbits.  
Folia biol. 8 no.3:186-188 '62.

1. Department of Zoology, Faculty of Science, Comenius University,  
Bratislava.

(RADIATION EFFECTS experimental)  
(BLOOD PROTEINS radiation effects)

PAULOV, S.

Effect of a low temperature on the development of radiation injury  
in eggs of the silkworm *Bombyx mori* L. *Folia biol.* 7 no.4:281-284  
'61.

1. Department of Zoology, Faculty of Sciences, Comenius University,  
Bratislava.

(COLD) (OVUM radiation eff.) (RADIATION INJURY exper.)

PAULOV, S.

SCIENCE

Periodicals: BIOLOGIA Vol. 10, no. 6, 1955

PAULOV, S. Sensitiveness to light of different wave lengths (colors)  
in the cockroach Blatta orientalis L. p. 773

Monthly List of East European Accessions (EFAI) LC, Vol. 2, No. 5,  
May 1959, Unclass.

FEBRUARY, 1900.

Further contributions to the extent of validity of the scheme [\(1\)](#) are made by the author in [\(2\)](#), with respect to light of different wave lengths (e.g. X-ray) in the time interval in which it is emitted.

is: monthly first flight counts from 1997 to 2000, and the number of

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CIA-RDP86-00513R001239510011-8"

PANLOV, S.

Panlov, S. Suppression and relaxation of circled negative in octavia by years  
of training and adaptation in Sialia orientalis L. p.1.

Vol. 10, no. 2, 1955 - BIOLOGIA BRATISLAVA, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAI), 10, 1, No. 2  
February, 1956

~~APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239510011-8"~~

A contribution to the knowledge of the mobility of serum proteins  
during paper electrophoresis. Biologia 15 no.12:916-918 '60.  
(EEAI 10:8)

1. Katedra zoologie Prirodovedeckej fakulty University Komenskeho,  
Bratislava.  
(PROTEIN) (ELECTROPHORESIS)

PAULOV, Stefan

Notes on the weight changes in irradiated rabbits. Biologija 15 no.8:  
616-618 '60.  
(EEAI 10:4)

1. Katedra zoologie Prirodovedeckej fakulty Univerzity Komenskeho,  
Bratislava.

(RADIATION)  
(BODY WEIGHT)  
(COBALT)  
(RADIOISOTOPES)

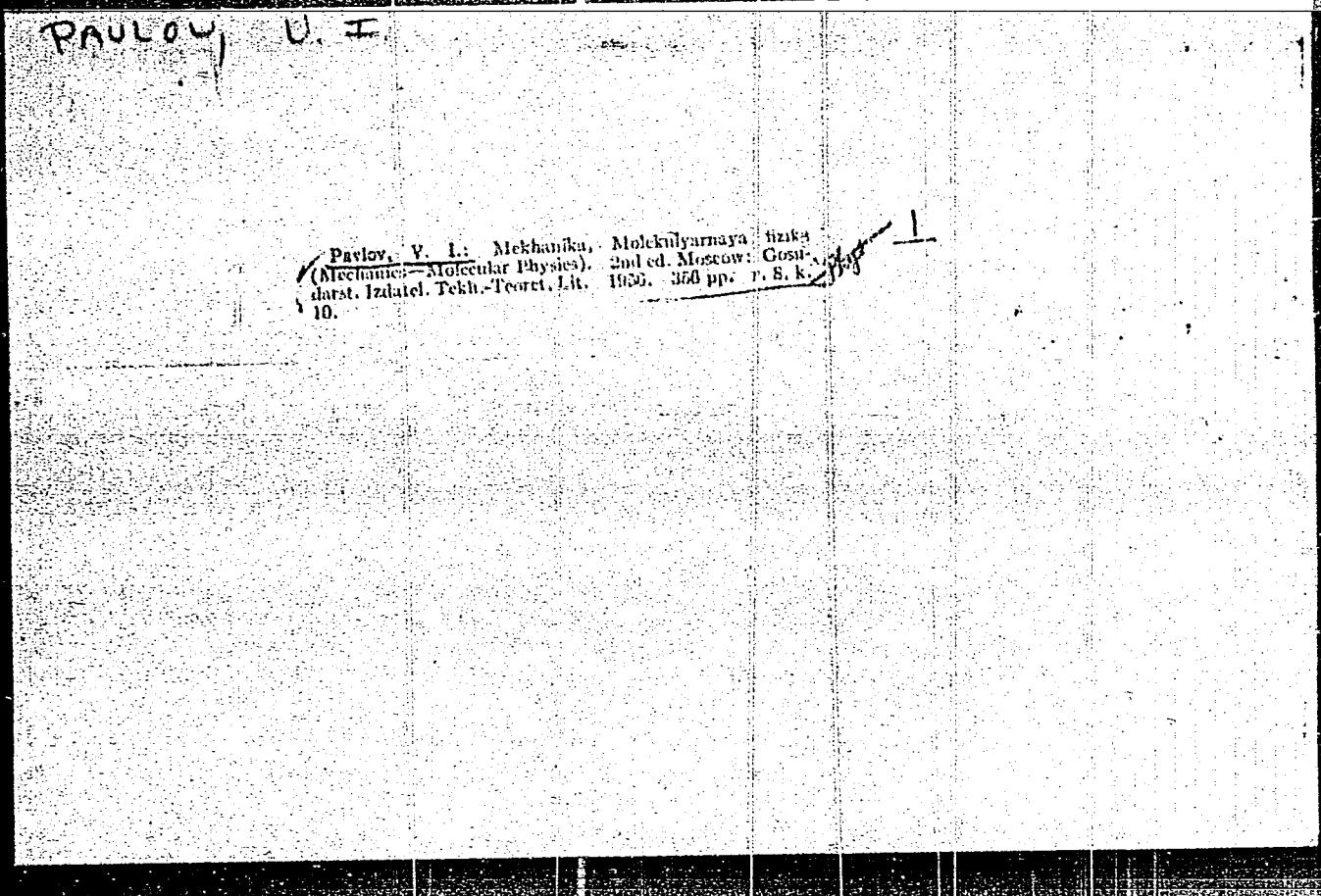
PAULOV, V. A.

8  
1-452c*Clegg*

## X-Ray Investigations of the Structure and Deformation Process in

Yunkov (Viktor Matveyevich) Metallurgenika, 1956, 3, 1), 557-60).  
In Russian. A letter. Experiments on the deformation in  
liqu. N of pure Al and its alloys show, up to 104% Mg give the  
following conclusions: The Debye characteristic temp. and the  
size of the regions of coherent X-ray gratings do not depend on  
comps. The lattice distortion and the residual internal stresses  
produced by a given deformation increase with increasing Mg  
content.—A. P. B.

*for  
Bill O'Conor  
KTS*



ENTOMOLOGY

CZECHOSLOVAKIA

PAJLOVA, Jana; Department of Ecological Physiology of Insects at  
the Institute of Landscape Biology, Slovak Academy of Sciences  
(Oddelenie Ekologickej Fyziologie Rovzu Ustavu Biologie Krajiny  
Slovenskej Akademie Vied), Bratislava.

"The Duration of Blood Sucking and the Increase of Body Weight of  
Females of *Culex Pipiens Molestus* Forsk Under Laboratory Condi-  
tions."

Bratislava, Biologia, Vol 21, No 4, 1966, pp 311 - 314

Abstract: The experiments were conducted on a human arm and on guinea  
pig under narcosis. The sucking was continued ad libitum; the average  
duration was 4.7 minutes on a human arm and 2.6 minutes on guinea pigs  
under narcosis. The weight increase amounted to 144.2% on average. 3  
Figures, 2 Tables, 4 Western, 1 Russian reference. (Manuscript received  
7 Dec 65).

1/1

CZECHOSLOVAKIA

PAULOVÁ, Jana; PAULOV, Štefan; Department of Ecological Physiology, Institute of Rural Biology, Slovak Academy of Sciences (Oddelenie Ekologickej Fyziologie Hmyzu Ustavu Biologie Krajiny Slovenskej Akademie Vied), Bratislava; Department of Animal Physiology, Chair of General Zoology and Animal Physiology, Faculty of Natural Sciences, Comenius University (Oddelenie Zivocisnej Fyziologie Katedry Vseobecnej Zoologie a Zivocisnej Fyziologie Prirodovedeckej Fakulty Univerzity Komenskeho), Bratislava.

"Heat Denaturizing Test of Albumin Extract of *Culex Pipiens Molestus* Forsk."

Bratislava, Biologia, Vol 21, No 5, 1966, pp 381 - 386

Abstract: Albumen extract of *Culex pipiens molestus* Forsk., was heated to 35.0 to 55.0°C for 30 minutes. The decrease in the number of free macromolecules is a linear function of increasing temperature; at 50°C 50% of the albumen is precipitated. 3 Figures, 1 Czech reference.

1/1

Entomology

CZECH. SL. VALIA

PALUCHOVÁ, Jana; Department of Ecological Physiology of Insects,  
Institute of Countryside Biology, Slovak Academy of Sciences  
(Oddelenie Ekologickej Fyziology Inštitútu Biologie Prírody Slovenskej akademie Vied), Bratislava.

"Biometrics of the Imagoes of Carex Pileosa Moths us Feratal in Laboratory Breeding."

Bratislava, Biologia, Vol. 1, no. 7, 1956, pp. 40 - 52.

Abstract: The insects are bred for use in biological model experiments. The technique of breeding is described. The females are 1½ times heavier than the males; the number of males exceeds slightly that of females. Biometric characteristics used in biological models are discussed. 3 Figures, 2 Tables, 1 Czech, 1 Russian reference. (Manuscript received 8 Jan 66).

1/1

Railroads and packing. p.3.  
UJITOK LAPJA (Orszagos Talalmanyi Hivatal) Budapest. Vol 7, no. 16, Aug 1955.

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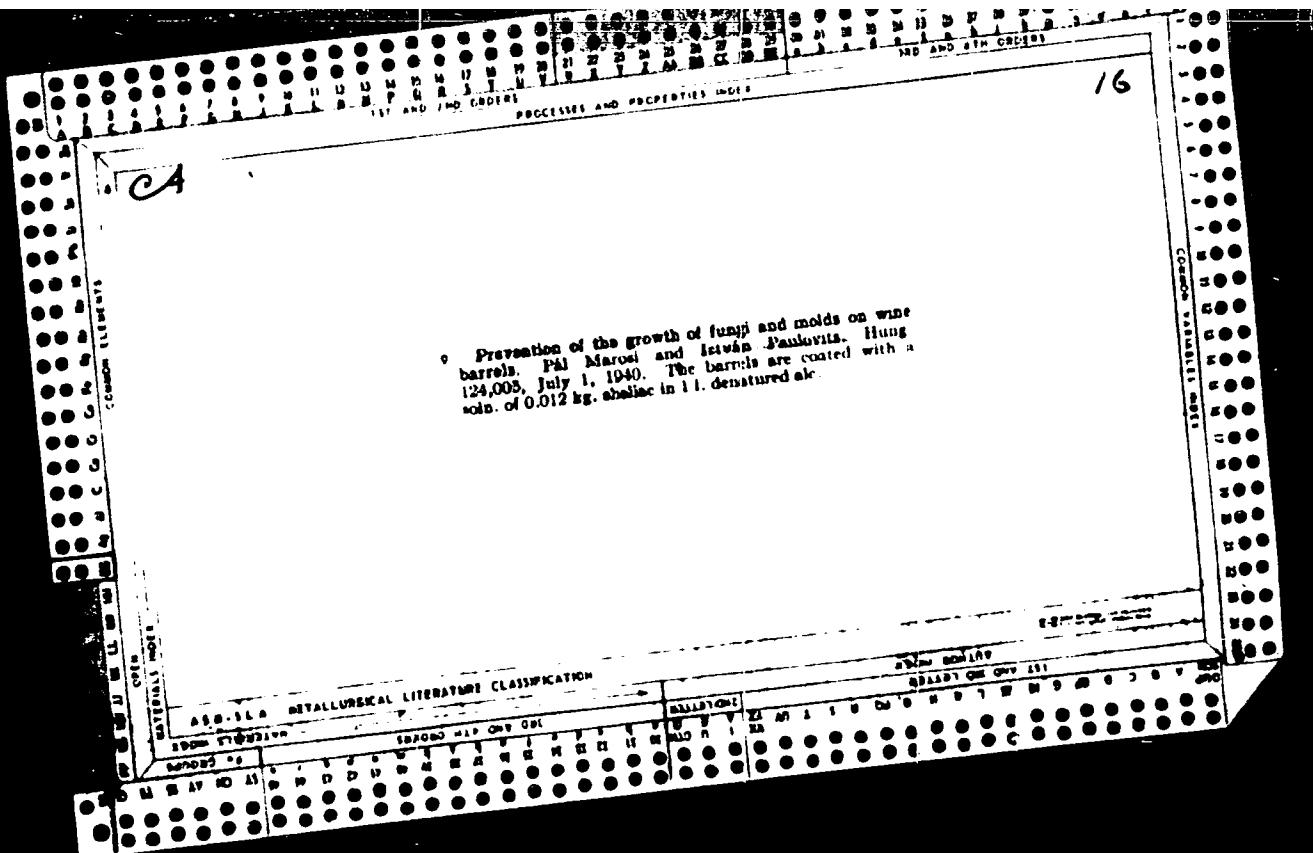
SOURCE: ZEAL, Vol 5, no. 7, July 19 6.

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CIA-RDP86-00513R001239510011-8"



Removal of colloids from water. VIKTOR PAULOVITS and DÉKÉS MOLNÁR. Hung  
105,815, March 16, 1933. Metal hydroxides are formed within the water by leading it  
between metal electrodes. During or after the electrolysis the water is aerated.

TWENTY, ye.

Minibreaks, Netherlands, Inc. - Xmas

"Corridor" with 10% of gross sales, minimum \$100,000.00 per year, plus

9. Monthly List of Russian Accessions. Library of Congress, Volume 1958, Uncl.

147-242 E. 77<sup>th</sup>, N.

ANOTHER SIGHTED IN THE MOUNTAINS OF THE SOUTHERN HILLS, 26-31. (V.M. SGR. TTV, P-211, W. L. M. V. 1950) STATE.  
1000 FEET. (D. M. M. F. 1950) 2,000 FEET. V. R. 1950.  
M2 S.S. HILL: 11. 11. 1950. 2,000 FEET. V. R. 1950.  
M2 S.S. HILL: 11. 11. 1950. 2,000 FEET. V. R. 1950.  
M2 S.S. HILL: 11. 11. 1950. 2,000 FEET. V. R. 1950.  
M2 S.S. HILL: 11. 11. 1950. 2,000 FEET. V. R. 1950.

So: *zhizn* Letopis' (part 2) v. 7, 1955

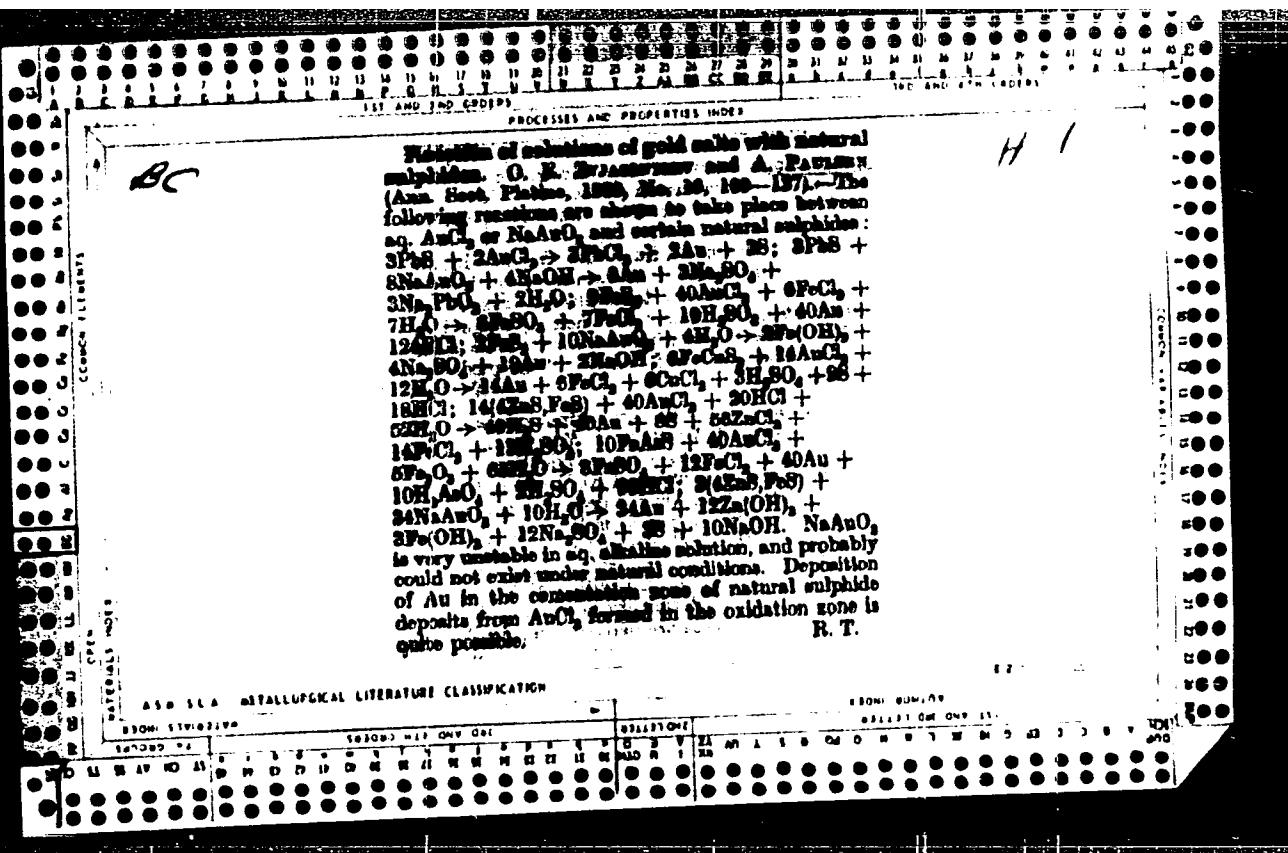
PAULS, LEJINS.

GENERAL

PERIODICALS: VESTIS No. 3, 1958

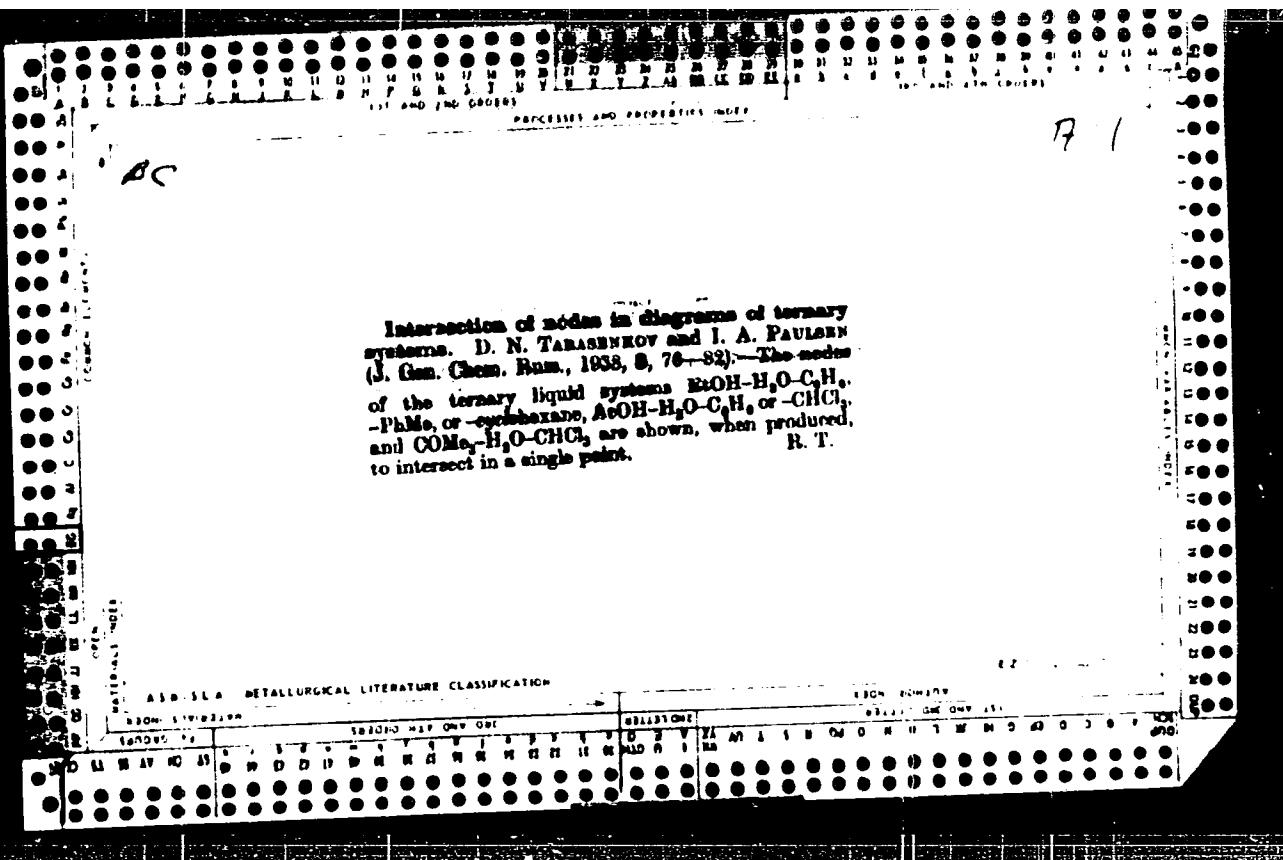
PAULSS LEJINS, Outstanding Latvian worker in agriculture, Professor, and Doctor.  
p. 7.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February, 1959, Unclass.



**Equilibrium in the ternary systems: hexane-alcohol-water and cyclohexanone-alcohol-water.** D. N. Tarasevich and I. A. Paulsen, *J. Org. Chem.*, U. S. S. R., 7, 2163-81 (1937). The method of Washburn and co-workers (*J. A. C. S.*, 28, 1503) was used in these investigations. In the following, the 1st of each set of 3 numbers represents concn. of the hydrocarbon, the 2nd EtOH and the 3rd H<sub>2</sub>O in wt. %. For the system *C*-EtOH-H<sub>2</sub>O (I) at 25°: 64.90, 33.10, 2.10; 47.54, 48.18, 4.28; 39.45, 55.24, 5.31; 34.97, 59.11, 5.92; 26.14, 64.91, 8.98; 10.27, 89.20, 14.51; 8.85, 93.45, 22.05; 2.17, 91.07, 37.78. For the same system at 0°: 64.98, 14.49, 0.69; 73.02, 24.78, 2.20; 57.02, 30.02, 1.98; 48.59, 50.03, 2.08; 32.50, 62.14, 3.36; 14.09, 71.98, 13.42; 11.71, 71.84, 16.46; 4.65, 98.63, 29.72; 2.47, 0.47, 93.08; 1.22, 94.41; 44.37, 5.23, 34.02, 65.73. For *C*-EtOH-H<sub>2</sub>O at 11.0°: 31.81, 68.02, 3.10, 0.98.

79.99, 18.82, 1.61; 61.04, 30.28, 2.08, 69.70, 37.82, 2.48; 45.01, 51.94, 2.15; 29.11, 68.03, 3.00, 17.61, 1.04; 8.55; 12.93, 74.73, 12.34; 6.00, 73.32, 18.48, 1.01; 67.49, 28.90; 1.40, 53.81, 44.34, 1.21, 30.68, 62.11. For the same system at 0°: 92.50, 6.61, 0.77, 34.10; 44.30, 1.00; 45.39, 63.32, 1.20, 35.18, 63.34, 1.48; 21.67, 74.01, 4.32; 11.90, 70.21, 8.92, 7.80, 76.74; 13.30; 7.32, 79.08, 13.00, 4.00, 76.82, 10.18, 2.13; 69.45, 18.02, 1.57, 69.43, 20.00, 0.94, 69.04, 69.92, 0.42, 43.12, 50.46. All the above represent mixts. without layer formation. In the cases where layers are formed, for system I at 25°, concns. of the upper layer: 69.06, 0.01, 0.32, 08.00, 1.50, 0.35, 88.96, 0.89, 1.15, and of the lower layer: 1.10, 45.08, 52.93, 1.45, 51.98, 6.03; 23.19, 0.024, 11.67. For system II at 25°, in the upper layer: 69.31, 0.08, 0.61, 97.71, 1.15, 0.51; in the lower layer: 0.23, 37.67, 62.10, 2.01, 56.92, 40.17. - S. I. M.



Colorimetric determination of gold in dilute solutions  
with  $\alpha$ -naphthylamine hydrochloride. I. A. Paulsen and  
S. M. Pevmer. *J. Applied Chem.* A-8, 8, 11, 507.  
Zoologen German 2003(1038). Dil. 1cc. of the sample with  
water to 10 cc., add 1cc. of 0.1%  $\alpha$ -Naph NH<sub>2</sub>HCl soln.  
and compare the violet soln. with a similarly treated  
standard. The color of the treated soln. increases in the  
1st 2-3 min., then remains const. for 1-2 hrs. If the soln.  
is allowed to stand more than 2 hrs. the results are high.  
The intensity of the color obeys the Beer-Lambert law.  
The presence of 0.1% soln. of Cu, Zn, Pb and Fe also  
(%) does not interfere with the detm. The accuracy  
of the method is  $\pm 2\%$ . Pd interferes. The detm cannot  
be made in strongly acid soln. because of the decompr. of  
the product, while an alk. soln. produces a blue color which  
is not stable. Acidifying the alk. soln. causes the forma-  
tion of NaCl in large amt. which decreases the stability of  
the color to such extent that the detm is not possible.  
A. A. Podgorny  
Seven references

Action of minerals on gold solutions D. E. Vining  
sey and J. A. Paulson - *Compt rend Acad Sci Paris* 241, 156 (1955) English An investigation of the actions between sulfide minerals (galena, sphalerite, chalcopyrite, pyrite and arsenopyrite) and  $\text{AuCl}_4^-$  or  $\text{NaAuO}_2$  led to the following equations: (a)  $4 \text{PbS} + 2 \text{AuCl}_4^- + 4 \text{PbO} + 2 \text{Au} + 3 \text{S} + 9 \text{FeCl}_3 + 10 \text{H}_2\text{SO}_4 + 6 \text{H}_2\text{O} + 2 \text{H}_2\text{O} + 8 \text{FeSO}_4 + 4 \text{CuCl}_2 + 10 \text{H}_2\text{SO}_4 + 4 \text{Au} + 1 \text{FeCl}_3 + 3 \text{HCl} + 6 \text{FeCl}_2 + 7 \text{AuCl}_4^- + 6 \text{H}_2\text{O} + 7 \text{Au} + 1 \text{FeCl}_3 + 3 \text{CuCl}_2 + 1.5 \text{H}_2\text{SO}_4 + 4.5 \text{S} + 9 \text{HCl} + 7 \cdot 4 \text{ZnS} + 1 \text{FeS}_2 + 20 \text{Au} + 10 \text{HCl} + 26 \text{H}_2\text{O} = 24.5 \text{H}_2\text{S} + 1 \text{H}_2\text{SO}_4 + 20 \text{Au} + 25 \text{ZnCl}_2 + 7 \text{FeCl}_3 + 4 \text{S} + 5 \text{NaAuO}_2 + 2.5 \text{FeCl}_3 + 20 \text{AuCl}_4^- + 32.5 \text{H}_2\text{O} + 4 \text{FeCl}_2 + 6 \text{H}_2\text{O} + 20 \text{Au} + 5 \text{H}_2\text{AsO}_4^- + \text{H}_2\text{SO}_4 + 48 \text{HCl} + 4 \text{PbS} + \text{NaAuO}_2 + 4 \text{NaOH} + 8 \text{Au} + 3 \text{Pb} + \text{Na}_2\text{SO}_4 + 2 \text{H}_2\text{O} + 1 + 47 \text{S} \text{FeS} + 1 \text{NaAuO}_2 + 1 \text{H}_2\text{O} + \text{Au} + 6 \text{Zn(OH)}_2 + 1.5 \text{Cu(OH)}_2 + \text{Na}_2\text{SO}_4 + 1.5 \text{S} + \text{NaOH} + 2 \text{FeS} + 10 \text{NaAuO}_2 + 4 \text{H}_2\text{O} + 2 \text{Fe(OH)}_3 + 4 \text{Na}_2\text{SO}_4 + 10 \text{Au} + 2 \text{NaOH}. It is unlikely that reactions (a) and (b) occur in nature. The other equations probably represent the process of deposition of Au on the mineralization zone.$

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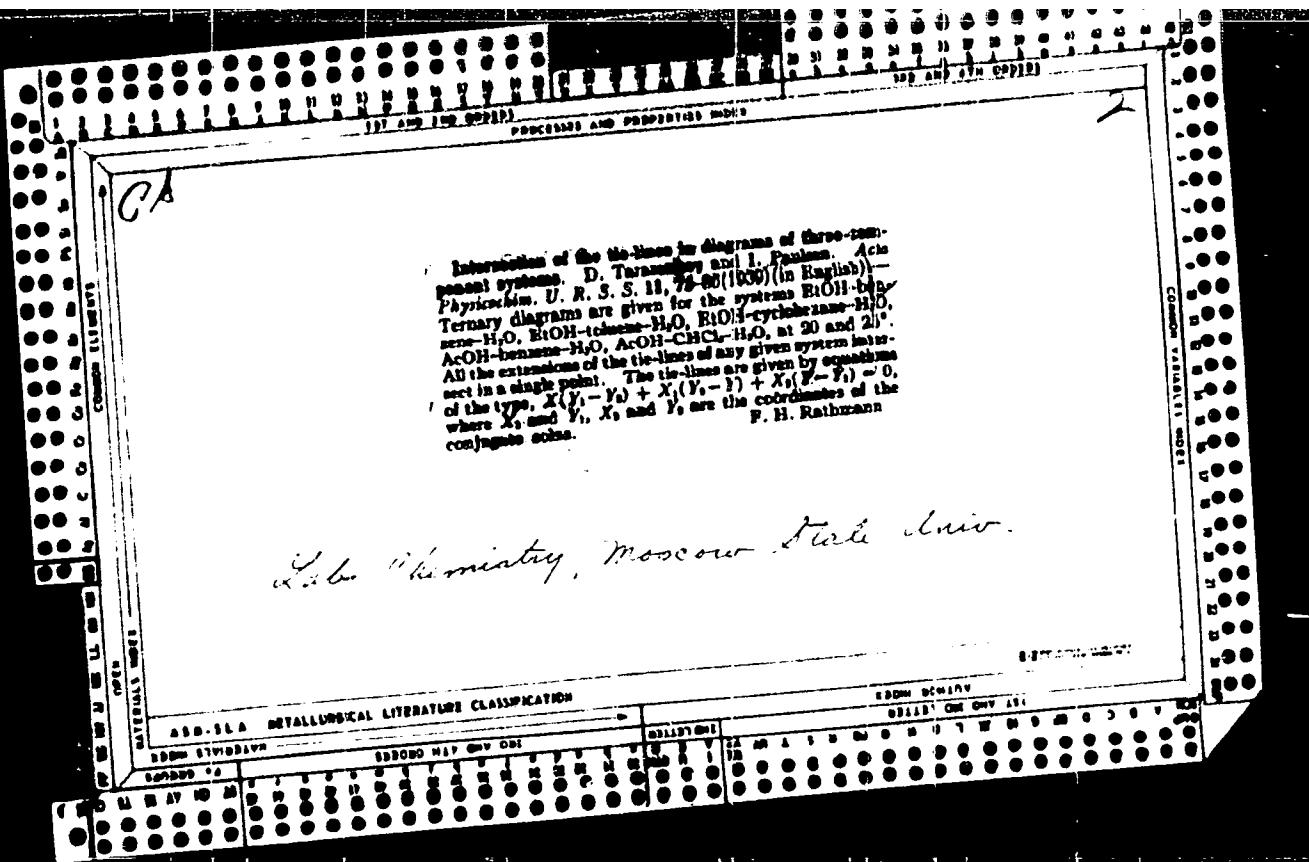
CA

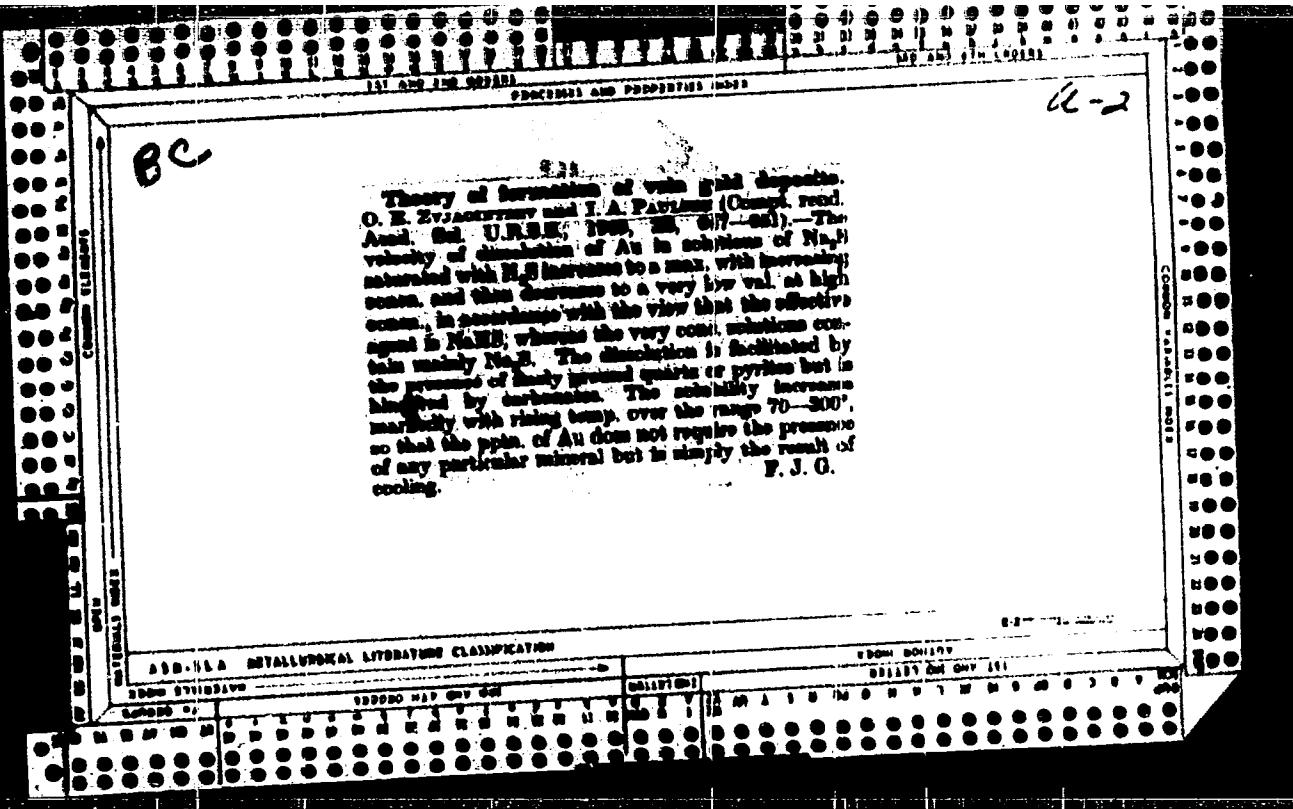
Action of minerals on gold solutions. G. I. Zavagno  
and J. A. Paulsen. Ann. Recherches Minéralogiques et  
Physico-Chimiques, No. 16, pp. 33-40. Sept. 1939.  
A758

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510011-8"





2

CA

Activation energy of the hydration of metaphosphoric acids in alkaline medium. I. A. Paul'yan (Sverd Ordzhonikidze Aviation Inst., Moscow); Dzhel'dy, Abdu; Nasib S.S.S.R. 76, 291-4 (1951).—Rates of hydration were measured in 0.1 N solns of Na trimetaphosphate (I) prepd. by heating  $\text{Na}_2\text{P}_2\text{O}_7$ , and of Na tetrametaphosphate (II) prepd. by neutralization of a freshly made soln of tetra-metaphosphoric acid, obtained by soln. in Hg of the volatile sublubation of  $\text{P}_2\text{O}_5$ . In 0.1 N alkali soln., the rate consts.  $k$  (min.<sup>-1</sup>) were, for I at 65, 75, 85, 90°,  $10^3 k = 10, 22, 42, 77$ ; for II at 75, 85, 90, 95, 100°,  $10^3 k = 1.2, 2.9, 4.8, 10.2, 16.0$ . Consequently, the hydration of II is about 1/16 as fast as that of I. The activation energies are, for I,  $E = 21.0$ , for II, 20.8 kcal/mole. This establishes the different nature of I and II in agreement with Khulakov (C.A. 38, 62211; 39, 18151).

1951

PAUL, T. I.

(5)

Determination of lithium in air. I. I. Paul and A. P.  
Vajshand [Sci. Research Smit. Inst., Novosibirsk] Gisland  
I. Sov. 1953, No. 9, 49-50.—Li in the air can be detd.  
colorimetrically according to Nazarenko and Filatova  
(C.A. 44, 9861g) in which the air is treated to give LiKFeIO<sub>4</sub>  
insol. in H<sub>2</sub>O, from which the Fe can be detd. colorime-  
trically by the Fe(CNS) method. The reaction is sensitive  
to 0.002 mg. Fe, or 0.000245 mg. Li per 3 ml. At the level  
of 0.0004-0.0008 mg./l. in the air, the reproducibility of  
standard samples is within 6-10% relative.

G. M. Kosolapoff

✓ Micromethod of determining the tin content of air. I. I. Paul, V. A. Vinogradova, and L. V. Mavlyanova (Sci.-Res. Sanit. Inst. Novosibirsk). Cifrent i Sanit. 22, No. 8, 23-6 (1957).—Pass the sample of air (10-50 l.) through 5 ml. 11% HCl at a rate of 12-15 l./min. until a ppt. of  $\text{SnO}_2$  is visible. Centrifuge the mist, add analize the sol. and insol. portions separately. Dissolve the insol. portion with 0.5 g. granulated Zn and 1-2 ml. concd. HCl, followed by warming with more HCl if necessary to dissolve any Sn formed; cool, and dil. to 5 ml. with  $\text{H}_2\text{O}$ . Reduce a sample of the sol. portion (0.6-2 ml., depending on concn.) with 0.16-0.2 g. Zn turnings and 1 ml. HCl, and titrate with cacotheline soln. The color is first lilac, and the end point is a change from brown-violet to brown-yellow. It is not sharp and calls for practice with standards. The cacotheline is prep'd. by mixing 1 g. brucine and 5 ml. cold 33%  $\text{HNO}_3$ , warming 15 min. at 60-60°, filtering after 4 hrs., and washing with 6%  $\text{HNO}_3$ ,  $\text{EtOH}$ , and  $\text{Et}_2\text{O}$ . The titration soln. contains 0.153 g./200 ml. One ml. is equal to about 0.06 mg.

Sn. The sensitivity of the method is 0.005 mg. So is 5 ml. John Howe Scott  
The accuracy is 0.002 mg.

RUMANIA.Human and Animal Physiology - Internal Secretion.  
General Problems.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12911

Author : Pol, E., Paul, I., Sasu, V.

Inst : -

Title : Determination of Function of Adrenals Using ACTH, Insulin, Adrenalin, and Pilocarpine (Change in Leukocyte Count and Glycemia in Sheep)

Orig Pub : Probl. zootehn. si veterin., 1957, No 12, 49-53

Abstract : In sheep the injection of ACTH, insulin, adrenaline, and pilocarpine produced a neutropenia, lymphopenia, and eosinopenia. Cortisone manifested a lower lymphopenia and eosinopenia. ACTH, cortisone, and adrenaline increased, and pilocarpine and insulin decreased, glycemia. The reduction in the number of lymphocytes and eosinophils can serve as an indicator of adrenal function.

Card 1/1

- 64 -

PAUL

The Use of Concrete in Buildings in the Metallurgical Industry. J. PAUL. *Hutnické Listy*, 1957, 18, (1), 401-403. [In Czech]. A technical and economic assessment is made of the merits of concrete and steel structures for works in the metallurgical industry. Monolithic concrete structures are considered to be efficient and suitable; the scope of assembled structures is limited.—P. Y.

~~Jiri~~ PAUL Jaromir

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Control and Measuring Devices. Automatic Regulation H-3

Abs Jour : Ref. Zhur. - Khimiya, No 2, 1958, No 4920

Author : Kmoch Jiri, Paul Jaromir

Inst : Not Given

Title : Magnetic Level Gauge

Orig Pub : Chem. prumysl, 1957, 7, No 3, 139

Abstract : The apparatus consists of a tube of non-magnetic metal, inside of which a hollow glass float, containing iron foil, is floating on the surface of the liquid. Outside the tube, suspended from a filament, is a magnet with a level index, which

Card : 1/2

PAUL, J.

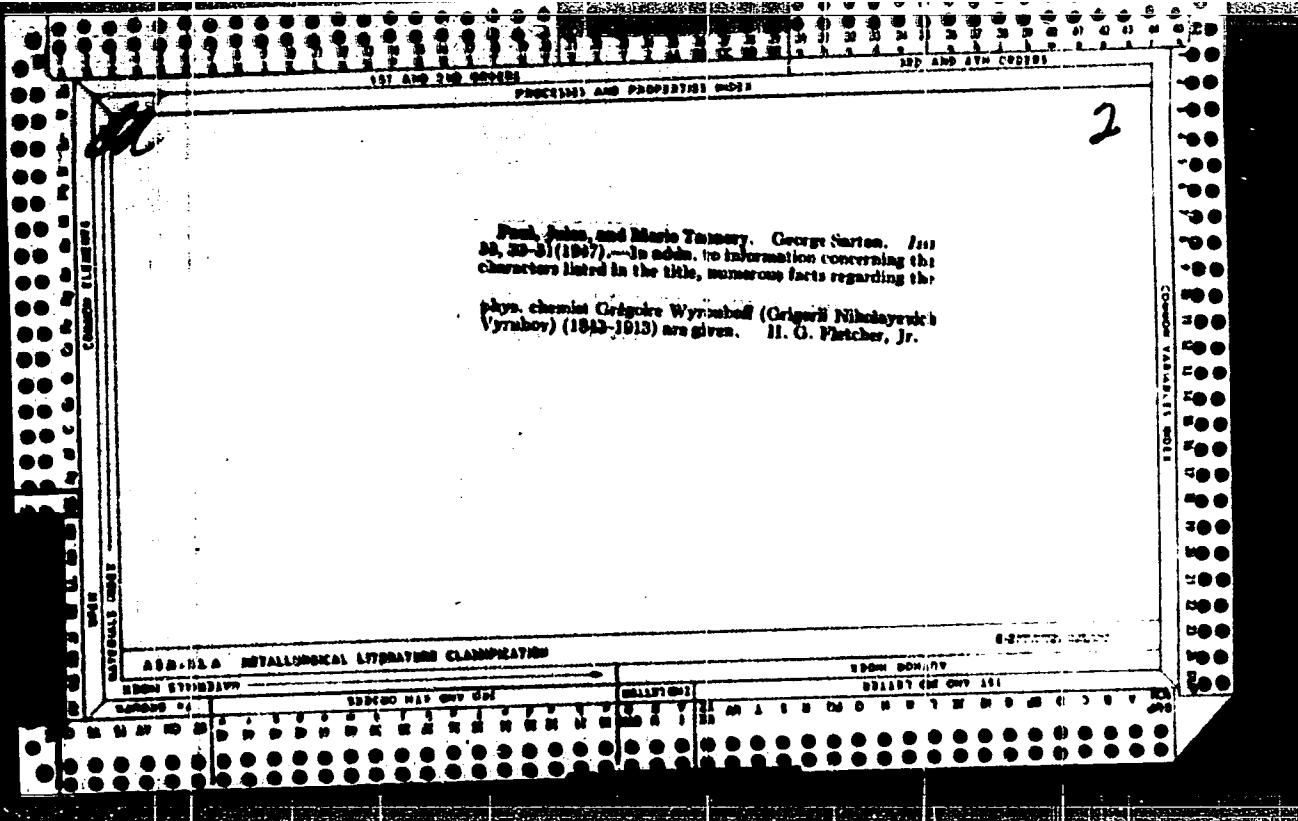
The use of concrete in metallurgical constructions. p. 401. (Hutnické listy.  
Vol. 12, No. 5, May 1957, Brno, Czechoslovakia)

SO: Monthly List of East European Accessions (EAL, LC, Vol. 6, No. 8, Aug 1957, Uncl.)

DAVIDSON, J.N.; THOMSON, R.Y.; PAUL, I.; SMELLIE, R.M.S.; GOUTIER, R.

Incorporation mechanisms in nucleic acid biosynthesis [in English  
with summary in Russian]. Biokhimiia 22 no.1/2:157-161 Ja-J '57.  
(MIRA 10:?)

1. Department of Biochemistry, the University of Glasgow, Scotland.  
(NUCLEIC ACIDS, metabolism,  
biosynthesis, incorporation mechanisms)



PART I

3.

PHASE I BOOK EXPLORATION

SOV/5799

Unkov, Ye.P., Doctor of Technical Sciences, Professor, Ed.

Sovremennoye sostoyaniye kuznechno-shtampovochnoye proizvodstva (Present State  
of the Pressworking of Metals) [Moscow] Mashgiz, 1961. 434 p. 5000 copies  
printed.

Ed. of Publishing House: A.I. Sirotin; Tech. Ed.: B.I. Model'; Managing Ed. for  
Literature on the Hot Working of Metals: S.Ya. Golovin, Engineer.

Title: Kuznechno-shtampovochnoye proizvodstvo v SSSR (The Pressworking of Metals  
in the USSR) by: A.V. Altykin, D.I. Berezhkovskiy, V.F. Volkovitskiy, I.I.  
Girsh (deceased), L.D. Gol'man, S.P. Granovskiy, N.S. Dobrinskiy, A.I. Zinin,  
S. L. Zlotnikov, A.I. Kegalovskiy, P.V. Lobachev, V.N. Martynov, Ye.N. Mosk-  
nin, G.A. Navrotskiy, Ya.M. Okhrimenko, G.N. Rovinskiy, Ye.A. Stesha, Yu.L.  
Rozhdestvenskiy, N.V. Tikhomirov, Ye.P. Unkov, V.F. Sheheglov, and L.A. Shof-  
man; Eds: Ye.P. Unkov, Doctor of Technical Sciences, Professor, and B.V. Roza-  
nov.

Title: Kuznechno-shtampovochnoye proizvodstvo v ChSSR (The Pressworking of Metals  
in the Czechoslovak SR) by: S. Burda, F. Hradil, F. Drastik, F. Zlatoblavok

Card 1/8

SGI/5799

Present State of the (Cont.)

Z. Nejval, V. Krauz, F. Kupka, F. Majer, K. Marvan, J. Novak, J. Orel, K. Paul, B. Scamler, M. Honz, J. Chalupa, V. Sindelar, and J. Sola; Eds.: A. Nejepaa and M. Vlk.

PURPOSE: This book is intended for engineers and scientific personnel concerned with the pressworking of metals.

COVERAGE: Published jointly by Mashiz and SNTL, the book discusses the present state of the pressworking of metals in the USSR and the Czechoslovak Socialist Republic. Chapters were written by both Soviet and Czechoslovak writers. No personalities are mentioned. There are 129 references: 98 Soviet, 16 English, 8 German, 5 Czech, and 2 French.

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PRESSWORKING IN THE USSR

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Ch. II. Methods of Calculating the Pressure for Forging in the Pressworking

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56

## Present State of the (Cont.)

Sov/5799

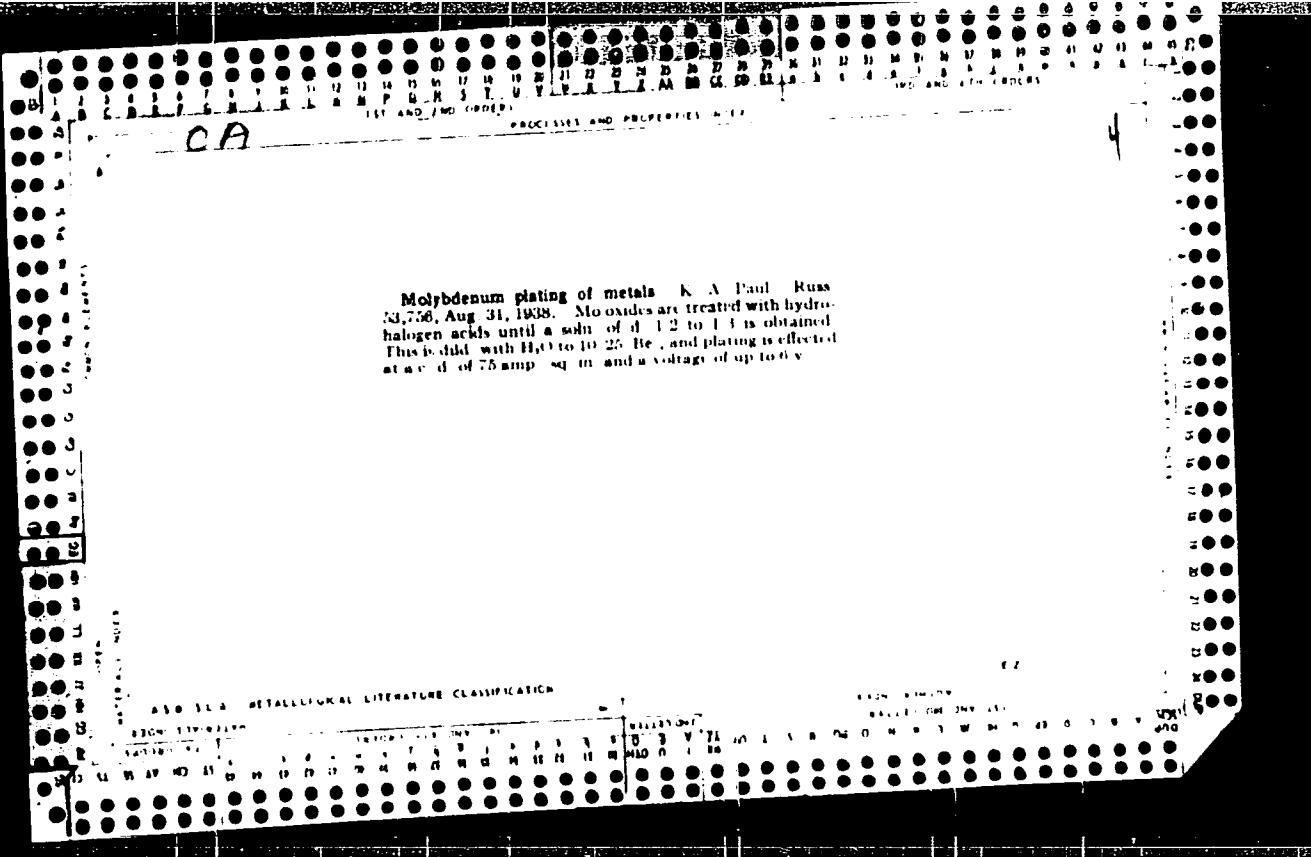
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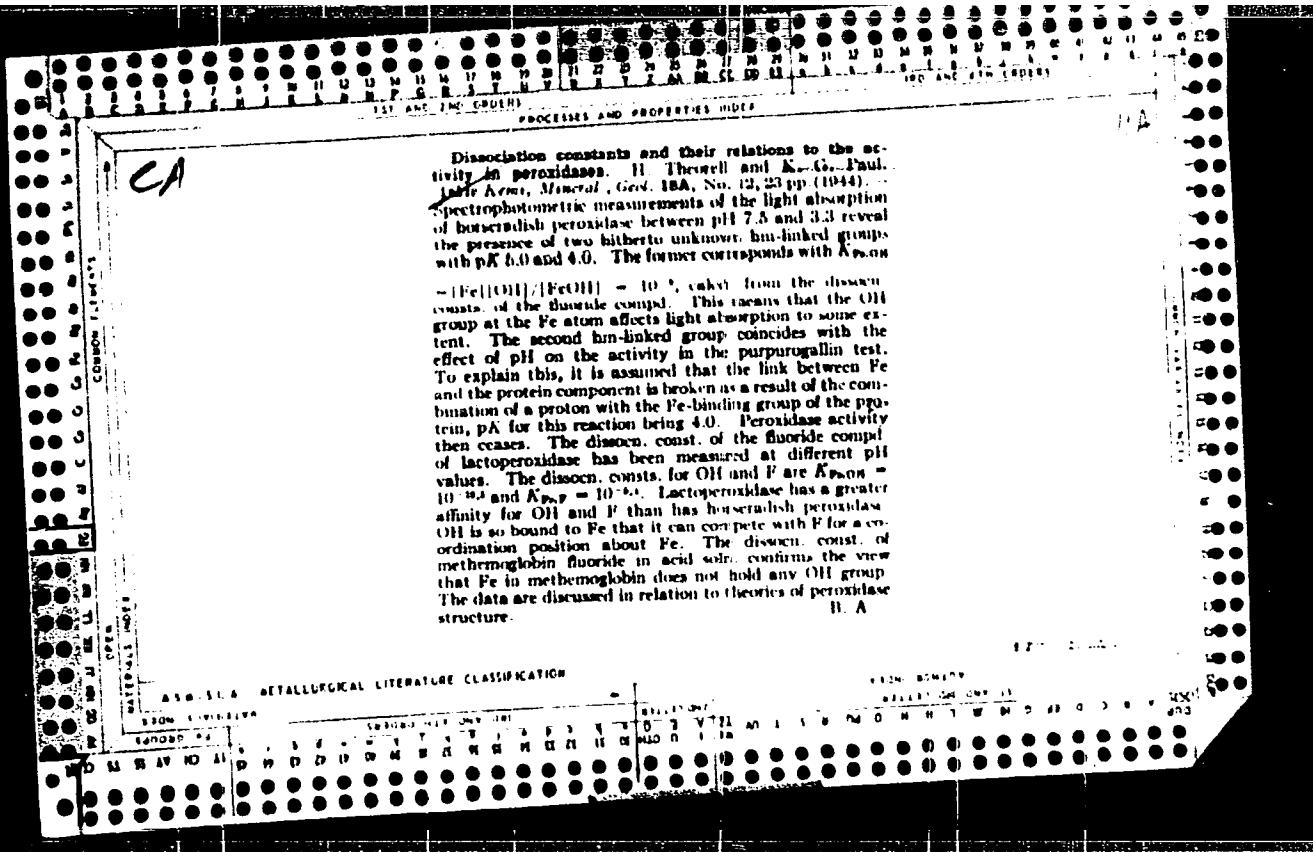
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3 &gt;

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Ch. XI. The Mechanization of Obsolete Enterprises as a Means of Increasing Labor Productivity [B. Šenner, Vítkovice Metallurgical Plant imeni Klement Gottwald, Ostrava]	410
Ch. XIII. The Initial Pressworking of FeAl Alloys and Large FeCrAl Castings [F. Major and J. Šolc, Scientific Research Institute of Iron, Prague].	

Card 7/8





L 40276-66  
ACC NR: AP6023651

SOURCE CODE: GE/0051/66/000/007/C407/0408  
(A, N)

AUTHOR: Ratajczak, G. (Ribnitz-Damgarten): Paul, M. (Rostock)

ORG: none

TITLE: Propulsion mechanism for a fully automatic welding apparatus for welding in a difficult position

SOURCE: Schiffbautechnik, no. 7, 1966, 407-408

TOPIC TAGS: welding, automatic welding, seam welding, welding equipment

ABSTRACT: This Author Certificate introduces a mechanism for moving a fully automatic welder along a weld seam without using guide rails and electric power (see Fig. 1).

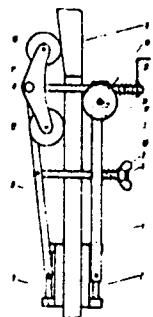


Fig. 1. Propulsion mechanism for welding apparatus (the foreplate 4 is removed)

Cord 1/2

PAUL, M.

CZECHOSLOVAKIA

GROSSMANN, J., MD; MALY, V., MD; PAUL, M., MD; SMID, V., MD;  
STEFAEK, J., MD.

1. Internal Medicine Ward OUNZ (Interni oddeleni OUNZ),  
Jihlava (for Smid); 2. Radiological Ward OUNZ (Radiolo-  
gicke oddeleni OUNZ), Jihlava (for Maly); 3. Okres  
Transfusion Station (Okresni transfuzni stanice), Jihlava  
(for Paul)

Prague, Prakticky lekar, No 13-14, 1963, pp 529-530  
"Treatment of Neurological Complications in Acute Leukemia."

( 5 )

PAUL, Milan

On the problem of hand sterilization in ocular operations.  
Cesk. ofth. 16 no.6:383-387 S '60.

1. Ocní klinika University v Brne, prednosta prof. MUDr. Jan  
Vanysek.

(STERILIZATION)  
(OPHTHALMOLOGY surg.)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510011-8

PAUL, M. E.

S.M. RIZKI, Subject. Kacikuk, 1936, n. 2-3, 2-10

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510011-8"

PAUL, V.; CEJKA, J.

"Domestic oils for diffusion pumps." P. 485.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 16, No. 9, Sept. 1956.

Monthly list of East European Accessions (EEA), LC, Vol. 8, No. 1,  
August 1959.  
Uncla.

: Romania

H-16

: 1961

41789

: 1961

: Hoffman, S.; Kuli, V.; Jaces, B.

: Paper Chromatography Analysis of a Number of  
Dyestuff Intermediates.

: Rev. Chim., 1961, 9, 3, 44-46

: by the method of paper chromatography the  
following separations were effected: 1) 1-naphthylamine-  
3,6,8-trisulfonic acid (Koch's acid) from 1-amino-8-naphthol-  
3,6-disulfonic acid (H-acid), and of 1-naphthol-3,6,-tri-  
sulfonic acid from chromotropic acid, with washing with a 10%  
solution of NaCl, and 2) 1-naphthionic acid from naphthionic  
acid, using a n-butanol-1,3,5-m-water mixture (40:10:50) as  
solvent, and washing with 10% solution of NaCl.

M. BAKOV

: R.I.

PAUL, V.

SCIENCE

Periodicals: REVISTA DE CHIMIE Vol.9, no. 10, Oct. 1958

PAUL, V. Application of the titanometric method to the analysis of  
inophenols. p. 576.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2.  
February 1959, Unclass.

BRODMAN, F.; STULEANU, C.; IACOB, B.; PAUL, V.

The anthraquinone-carbazolic dyestuffs. Rev chimie Min petr  
14 no.4:222-223 Ap '63.

SANIELEVICI, H.; BRODMAN, F.; TEODORESCU, L.; PAUL, V.; PASCALIDE, R.;  
IACOB, B.; STULEANU, C.

Organic pigments for plastic materials. Pt 2. Rev chimie Min petr  
13 no.11:668-674 N '62.

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LEYN, S.D.; PAUL, V.A., slesar'-remontnik

Redesigning of the drive of the KV-240-Sh dyeing apparatus. Tekst.  
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1. Nachal'nik otdelochnogo proizvodstva fabriki "Rigas Tekstils"  
Latviyskogo sovmarkhoza (for Leyn). 2. Fabrika "Rigas Tekstils"  
Latviyskogo sovmarkhoza (for Paul).  
(Riga--Dyes and dyeing--Apparatus)

ALEKSEEV, Aleksey Pavlovich, kand.tekhn.nauk; SESSAREVSKIY, A.N., inzh.,  
retsenzent; PAUL', V.P., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Overall mechanization of construction operations in the  
electrification of railroads] Kompleksnaya mekhanizatsiya stroi-  
tel'nykh rabot pri elektrifikatsii zheleznykh dorog. Moskva, Vses.  
izdatel'sko-poligr.ob"edinenie M-va putei soobshchenija, 1961. 141 p.  
(MIRA 14:6)

(Railroads--Electrification)

ONUFRIYEV, Timofey Grigor'yevich, dots.; SHATNEV, Boris Nikolayevich,  
dots.; IVAN'KO, Timofey Yakovlevich, inzh.; GEROL'SKAYA, Lyudmila  
Sergeyevna, dots.; SARYCHEVA, Nina Petrovna, dots.; KOSTYATEV,  
Sergey Petrovich, inzh.[deceased]; YEGOROV, L.P., dots., retsenzent;  
ZAYCHENKO, I.R., dots., retsenzent; BYALYNITSKIY, V.A., inzh., retsenzent;  
CHELKASHIN, N.A., inzh., retsenzent; DYNER, I.I., inzh., retsenzent; PAJL',  
V.P., inzh., red.; NEKLEPAYEVA, Z.A., inzh., red.; MEDVEDEVA, M.A.,  
tekhn. red.

[Buildings in railroad transportation] Zdaniia na zheleznodorozh-  
nom transporte. Moskva, Transzheldorizdat, 1962. 408 p. (MIRA 15:6)  
(Railroads--Buildings and structures)

PAUL', V.P.; YANKOVSKIY, O.A., starshiy nauchnyy sotrudnik; KUSHNIR, M.M.

Comprehensive and continuous organization of the construction of  
railroads. Transp. stroi. 14 no.2:3-6. F '64. (MERA 17:4)

1. Rukovoditel' laboratorii organizatsii transportnogo stroitel'stva  
Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo  
stroitel'stva Ministerstva transportnogo stroitel'stva (for Paul').

2. Glavnnyy inzh. upravleniya Karagandastroyput' (for Kushnir).

PAN', V.P., inzh.

Using production-lich. i.e. constructing railroads. Party,  
stroi. ll no.2:39-11. '61. (I A M: )  
(Railroads--Construction)

ALEKSEYEV, Ye.P.,; PAUL<sup>1</sup>, V.P.

New Abakan-Taishet railroad line. Transp.stroi. 9 no.3:8-13  
(MIRA 12:4)  
Mr '59.

1. Glavnnyy inzhener proyekta novoy zheleznodorozhnoy linii  
Abakan-Tayshet (for Alekseyev). 2. Rukovoditel' sektora organizat-  
sii stroitel'stva TSentral'nogo nauchno-issledovatel'skogo insti-  
tuta svyazi (for Paul').  
(Siberia--Railroads--Construction)

MATVEYEV, Nikolay Ivanovich, dotsent, kand.tekhn.nauk; NEPRINTSEV,  
Mikhail Nikolayevich, dotsent, zasluzhennyy deyatel' nauki i  
tekhniki; PERSIANOV, Moisey Artem'yevich, dotsent, kand.tekhn.  
nauk; SOKOLOV, F.G., inzh., retsenzenter; PAUL', V.P., inzh..  
red.; VERINA, G.P., tekhn.red.

[Principles of construction in railroad transportation] Osnovy  
stroitel'nogo dela na zheleznodorozhnom transporte. Moskva,  
Gos.transp.zhel-dor.izd-vo. Pt.2. [Construction operations and  
buildings] Stroitel'nye raboty i zdaniia. 1959. 311 p.  
(MIRA 12:9)

(Building)

(Railroads--Buildings and structures)

PAUL', V.P., inzhener.

(On the construction site of the Karesuk-Kamen' railroad. Transp.  
stroi. 7 ne.1:3-5 Ja '57. (MIRA 10:3)  
(Railroads--Construction)

PAUL', V.P.

LEBEDEV, Mikhail Niklayevich, kandidat tekhnicheskikh nauk; ASHEKO, Sof'ya  
Mikhailovna, kandidat tekhnicheskikh nauk; ZMIYENKO, Sergey Mitro-  
fanovich, kandidat tekhnicheskikh nauk; KRYUKOV, Georgiy Nikolayevich,  
kandidat tekhnicheskikh nauk; SIDOROV, Nikolay Nikolayevich, kandidat  
tekhnicheskikh nauk; PAUL', V.P., inzhener, redaktor; YUDZON, D.M.,  
tekhnicheskiy redaktor

[Building] Stroitel'noe proizvodstvo. Pod red. M.N. Lebedeva. 2-e  
perer. izd. Moskva, Gos. transportnoe zheleznodor. izd-vo, 1954.  
489 p.

(Building)

IVANOV, Igor' Nikolayevich; PAUL', V.P., inzhener, redaktor; VERINA,  
G.P., tekhnicheskiy redaktor

[Construction of railroad buildings made of masonry wall blocks]  
Postroika zhelezodorozhnykh zdanii iz krupnykh stenovykh blokov.  
Moskva, Gos. transportnoe zhel-dor. izd-vo, 1955. 51 p. (MLRA 8:6)  
(Railroads--Buildings and structures)  
(Building blocks)

ALEKSEYEV, Aleksey Pavlovich, inzhener; PAUL', V.P., inzhener, redaktor;  
KHITROV, P.A., tekhnicheskiy redaktor

[Construction of industrial buildings for railroads] Opyt stroitel'-  
stva zheleznodorozhnykh promyshlennyykh zdaniy. Moskva, Gos. trans-  
portnoe zhel-dor. izd-vo, 1955. 82 p.

(MLRA 8:6)

(Railroads--Buildings and structures)  
(Building)

SHATNEV, Boris Nikolayevich, kandidat tekhnicheskikh nauk; PAUL', V.P.,  
inzhener, redaktor; VENINA, G.P., tekhnicheskiy redaktor

[Buildings in railroad transportation] Zdaniia na zhelezno-  
rozhnom transporte. Moskva, Gos.transp.zhel-dor.izd-vo, 1955.  
474 p.  
(Railroads--Building and structures)

PAUL', V. P.

SOKOLOV, Fedor Grigor'yevich; PAUL', V.P., inzhener, redaktor; VERNINA, G.P.,  
tekhnicheskiy redaktor

[Building of railroad structures] Stroitel'stvo zheleznozbroznykh  
zdanii. Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 339 p.  
(MLRA 10:9)

(Railroads--Buildings and structures)

SEREBRIEVSKIY, Aleksandr Nikolayevich; PAUL', V.P., red.; YUDZON, D.M.,  
tekhn.red.

[New construction materials for railroad buildings.] Novye materialy  
dlia stroitel'stva zheleznodorozhnykh zdanii. Moskva, Gos.transp.  
zhelez.dor.izd-vo, 1954. 69 p. (MIRA 14:4)  
(Building materials)  
(Railroads--Buildings and structures)

SOSNOVSKIY, L.A.; PAULI, V.P., kand.tekhn.nauk; FISHCHENKOV, M.A., kand.tekhn.nauk; DUBSHITS, M.L., inzh.; LIUTSKIY, S.Ya., inzh.

Graphic work schedule and management in the construction of the Gur'ev - Astrakhan railroad. Transp.strct. 15 no.10:5-7 0 1966.  
MIRA 18.1.

1. Glavnyy tekhnolog upravleniya sredstvom No.94 (for Sosnovskiy).

HUNGARY/Nuclear Physics - Elementary Particles.

C

Abs Jour : Ref Zhur Fizika, No 4, 1960, 7959

Author : Paul, W.

Inst :

Title : Circular Polarization of  $\gamma$  Rays that Follow the Decay  
of Polarized Heavy Particles.

Orig Pub : Naturu; ssenschaften, 1959, 46, No 9, 277-283

Abstract : The circular polarization of  $\gamma$  rays that arise during  
the decay of polarized heavy particles is proportional  
to the degree of polarization of these particles. For  
the coefficient of proportionality the author obtains  
a value which is independent of the details of the in-  
teraction and which is the result of purely geometric  
factors (depending on the spins and parities of the  
particles).

Card 1/1

Pavlas, P.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products H  
and Their Application. Carbohydrates  
and Their Processing.

Abs Jour: Ref-Zhur-Khimiya, No 9, 1959, 33006.

Author : Pavlas, P., Molounova-Hauslerova, O.

Inst : Not given.

Title : The Composition of the Sugar Beet and Juices  
in the Industrial Season of 1957-58.

Orig Pub: Listy cukrovarn., 1958, 74, No 8, 175-183.

Abstract: The composition of sugar beets of 63 sugar refineries, and diffused juices and syrups of 49 sugar refineries in Czechoslovakia, are submitted. In 1957, the growth of beets took place in an ample supply of moisture. The average weight of the roots was 578.2 g.; sugar content, 16.71% (18.64-14.77%); pulp, 4.41%;

Card 1/3

251

PAVLAS

P.

Chromatographic and electrophoretic separation of amino acids in the diffuse and thick sugar-beet juices from the campaign 1954-55. P. Pavlas and O. Melounová-Hánslerová. *Zitny Chlavor*, 72, 35-7 (1958). By 2-dimensional paper chromatograms of Czech sugar-beet juices (developed with  $\text{PhOH}-\text{H}_2\text{O}$  3:1, and  $\text{BuOH}-\text{AcOH}-\text{water}$  4:1:6) the following were identified: aspartic and glutamic acids, serine, glycine, threonine, alanine, tyrosine, valine, phenylalanine, leucine, histidine, arginine, lysine, asparagine, glutamine, and in one instance proline. The spots varied according to the source and processing conditions. Paper electrophoresis sep'd. basic, acidic, and neutral amino acids which were subsequently developed by 1-dimensional paper chromatograms. At one end were formed distinct spots of glutamic and glutamic acids, and at the other were found lysine and histidine.

T. Jurecic

L3021

3/194/62/000/010/046/084  
A061/A126

AUTHORS: Ilgunas, V., Paulauskas, K.

TITLE: Effect of the design of an ultrasonic interferometer on the reaction curve quality

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962,  
15 - 16, abstract 10-5-30f (In collection: Primeneniye ul'traakust.  
k issled. veshchestva, no. 13, M., 1961, 139 - 149)

TEXT: This is on the further development of the ultrasonic interferometer theory, which permits of doing without the simplifying assumption of the rear interferometer crystal wall being free. The electric impedance of the crystal is calculated in the presence of layers of finite thickness at either side of the crystal. It is shown that the electric impedance of the crystal can be expressed through the mechanical impedances of the boundary layers as follows:

$$Z = \frac{a^2}{4 e^2 s} \cdot (Z_{in} - Z_{ein}) ,$$

Card 1/2

L 27242-45	EWT(d)/EPW(n)-2/EWP(1) WW/GS/BC	Po-4/Pq-4/Pg-4/Pn-4/Pk-4/Pj-4 IJP(c)	
ACCESSION NR:	AT5003904	S/0000/64/000/000/0048/0058	44
AUTHOR:	Paulauskas, Ts. Ts.		36
TITLE:	Some problems in the construction of discrete automatic optimizers		8+1
SOURCE:	Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo modelirovaniya. 3d, 1962. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); sbornik trudov konferentsii. Moscow, Izd-vo Nauka, 1964, 48-58		
TOPIC TAGS:	optimization control system optimal control digital optimizer		9
ABSTRACT:	An optimization system is described, consisting of two parts, an operational unit and a control unit. The operational unit, made up of analog elements, applies trial increments, analyzes the response of the objects, and develops operating signals. The se-		
Card	1/3		

L 27242-65

ACCESSION NR: AT5003904

quence of the optimization operation (its algorithm) is specified by a digital control unit, which quantizes the operational-unit quantities in time. The noise acting on such a system is described. A working model of a two-channel digital optimizer based on this principle, consisting of about 400 transistors and 1000 diodes, was tested. The analysis and the test results lead to the following conclusions: An increase in the stability of the optimizer blocks, aimed at improving the performance of the automatic optimization system, is possible by using an automatic optimizer consisting entirely of digital elements. A single minimum of the optimized quantity, which depends on a relatively small number of variables (3--12) on which certain limits are imposed in the form of inequalities, can be determined with a simpler digital automatic optimizer in which a search algorithm is realized, combining the method of steepest descent for search away from the minimum and the gradient method near the minimum. When the number of variables is large, the limitations are of complicated form, and several local minima are to be found, it becomes

Card

2/3

I 27242-5

ACCESSION NR. AT5003904

necessary to construct a digital automatic optimizer in the form of  
a special-purpose computer with universal arithmetic and memory  
units. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: None

SUBMIT ID: 17Aug64

ENCL: 00

SUB CODE: IE, DP

NR REF ID: 011

OTHER: 001

Card

3/3

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510011-8

PAULAVICHUS, V., inzh.

Oleo-pneumatic riveting press. Avt.transp. 42 no.1:29-30 Ja '64.  
(MIRA 17:2)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510011-8"

(A) L 1554-66 EWT(m)/EWP(j)/T RM  
ACCESSION NR: AP5021825 22  
16 B UR/0342/65/000/008/0066/0070  
677.494.675.862.5 44.55  
AUTHOR: Paulauskas, A. P. (Candidate of chemical sciences); Vipokinskas, A.A.  
(Research Associate) 15.44.55  
TITLE: Change in certain properties of polyamide fibers and fabrics during long-term natural insolation  
SOURCE: Tekstil'naya promyshlennost', no. 8, 1965, 66-70  
TOPIC TAGS: polyamide fiber, polyamide fabric, capronic fabric insolation, textile industry  
ABSTRACT: The object of the work was to study the change in certain properties of capronic threads and fabrics, both untreated and treated, during a long-term natural insolation. It was found that the stability of the samples subjected to outdoor exposure depends on their form (number of threads, grade, interweaving of the fabric, etc.) and on the nature of the treatment (curing, dyeing, etc.). Capron samples cured with saturated vapor are less stable toward photochemical destruction than samples cured with hot dry air, as indicated by a decrease in the tensile strength, bending strength, wear resistance, etc. Capronic threads and fabrics, independently

Card 1/2

L 1554-66

ACCESSION NR: AP5021825

of their form and of the nature of their treatment, are damaged mostly during the first 10 to 30 days of insulation. Curing with hot dry air is the best means of preventing the yellowing of capronic fabrics during insulation. Orig. art. has: 6 figures and 2 tables.

6

44,53

ASSOCIATION: Kaunaskiy politekhnicheskiy institut (Kaunas Polytechnic Institute);  
Nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti (Scientific Research Institute of the Textile Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 002

OTHER: 006

Card 2/2 Df

BAZEVICIUS, I.M., glavnnyy inzhener fabriki; SHURKO, V.I., nachal'nik  
otdelochnogo tschka; PAULASKAS, A.P., inzhener.

Heavy woolens produced by the "Liteksas" factory. Tekst.prom.  
14 no.11:6-7 N '54. (MLRA 8:1)  
(Lithuania--Woollen and worsted manufacture)

PAULAIUSKAS, R.F., doktient, kand. khim. nauk; VIZGIRSKAS, A.A., nauchnyy  
chlenik.

Changes in some properties of polyamide fibers and fabrics due  
to prolonged exposure to sun's rays. Tokat. prom. 25 no.8:66-  
(MIRA 19:6)

1. Kaunaskiy politekhnicheskiy institut (for Paulauskas).
2. Nauchno-issledovatel'skiy institut tekstil'noy promstilennosti,  
Kaunas (for Vizgirskas).

Effect of the design of an ultrasonic interferometer on the  
form of the reaction curve. Prim. ul'traakust. i issl. veshch.  
no.13:139-149 '61. (MIRA 16:6)

(Interferometer)  
(Crystals--Acoustic properties)

PAULAUERAS, R. A.

Dissertation: "Investigation of the Electric Drive of aoller Conveyor Driven by the Generator-Motor System Using Magnetic amplifiers for Control and regulation." Nat'l Tech Sci, Moscow Order of Lenin Power Engineering Inst. in V. I. Ulyanov, Moscow, Vechernaya Moskva, Moscow, 12 Nov 54.

SO: SCM 254, 26 Nov 1954

PAULAUŠKAS, M.A.; YANICKIS, A.I. [Janickis, A.]

Mechanical characteristics of the system "magnetic amplifier-direct current motor." Trudy AN Lit. SSR. Ser. B no.2:147-153  
'63. (MIRA 17:10)

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR.

PAULASKAS, M.A.

Dynamics of the system "maine i amplifier current current ratio."  
Trudy AN Lit. Ser. R no. 1355-p1 t63. (MIRA 10:1)

1. Institut energetiki i elektroniki AN Litovskoy SSR.

PAGLARIS, R.A.

Static characteristics of a varactor amplifier with negative feedback loaded with active resistance and operating a.m.l. (Engl. Soc. Ser. No. 3, 1971, p. 117).

1. Institut energetiki i vinatechnicheskogo resheniya

SNIPAS, P., med. m. kand.; PAULAUSKAS, S.; ZABIELA, P.

On the problem of patient-physician relations. Sveik. apsaug.  
8 no. 5:43-46 '63.

l. Kauno Valst. medicinos instituto hospitalines terajdjos  
katedra (vedejas - prof. Z. Januskevicius) ir Resp. Kauno  
klinine ligonine (vyr. gydytojas - doc. P. Jasinskas).  
(PHYSICIAN-PATIENT RELATIONS)  
(ETHICS, MEDICAL)

L 36547-66 EWT(1)/EWT(m)/T/EWP(k)  
ACC NR: AP6016837 (N)

SOURCE CODE: UR/0046/66/012/002/0258/0261

AUTHOR: Ilgunas, V.; Paulauskas, K.

ORG: Kaunas Polytechnical Institute (Kaunasskiy politekhnicheskiy institut)

TITLE: Measurement of absorption of ultrasound in liquids by means of an interferometer

SOURCE: Akusticheskiy zhurnal, v. 12, no. 2, 1966, 258-261

TOPIC TAGS: ultrasound absorption, liquid property, interferometer, acoustic measurement, acoustic speed

ABSTRACT: The authors report that they were able to increase the sensitivity of interferometric measurements of the absorption of ultrasound in liquids by using new electric supply and indication circuits, mechanical fastening of the radiating crystal, and a new reflector construction (Fig. 1). This has made it possible to develop a new method of measuring absorption of ultrasound in liquids for frequencies 1 - 15 Mcs. Simultaneously, it makes it possible to determine the velocity of sound in the investigated liquid and the coefficient of reflection of the sound waves from the reflector. The absorption was measured with a precision interferometer of the Pierce type equipped with an adjustment for the parallelism of the reflector and the crystal, which radiated directly into the liquid. The theory of

UDC: 534.286: 532

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ACC NR: AP6016837

Fig. 1. Block diagram of setup (left) and equivalent circuit (right). 1 - Quartz generator, 2 - broadband amplifier, 3 - high-frequency power amplifier, 4 - automatic amplitude control, 5 - interferometer chamber, 6 - cathode detector, 7 - dc amplifier, 8 - low-frequency oscilloscope, 9 - high-frequency oscilloscope, 10 - heterodyne wave meter, 11 - vacuum-tube volt meter.

the instrument and the calculation of the required corrections are briefly given. The accuracy of the method is approximately 10% at low absorption and 2.5% at high absorption. Test results are presented for water, acetone, ethyl alcohol, turpentine, carbon tetrachloride, benzene, acetic anhydride, and castor oil. Advantages claimed for the method are sensitivity adequate for the measurement of low absor-

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ACC NR: AP6016837

tion, simpler method of determining the absorption coefficient, and ease of adjustment of the apparatus. Orig. art. has: 3 figures, 2 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 05Dec64/ ORIG REF: 002/ OTH REF: 002

Card 3/3/14/

PAULAUSKAS, TS. TS. (Moskva)

Discrete automatic optimizer. Part II. Avtom. i telem. 23  
no.11:1497-1506 N '62. (MIRA 15:10)

(Automatic control)

168000 (1031,1121,1329)

33755  
S/103/62/023/001/003/014  
D201/D304

AUTHOR:

Paulauskas, Ts.Ts. (Moscow)

TITLE:

Investigating a gradient automatic optimization system  
in the presence of random noise at the input and out-  
put of the object

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 1, 1962, 34-44

TEXT: The author considers a real system of optimization in which a multi-channel automatic optimizer is used as controller and where noise which may be present, substantially affects the optimization process performance. The block diagram of the system is shown in Fig. 1. The controller Y consists of a common unit  $Y_0$  and channels  $YK_1, YK_2, \dots, YK_m$ , producing outputs  $u'_1, u'_2, \dots, u'_m$ . The output  $Y$  at the output  $F_0$  of the object  $O$  has to be minimized. It is added to the error  $Z_2$  in the part  $F$  of the object. At the object input the controlling quantities  $u'_i$  ( $i = 1, 2, \dots, m$ ) are added to ran-

dom interference  $Z_{oi}$ , so that the input of the object consists of

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Investigating a gradient automatic ...

the sum  $x_i = u_i + z_{oi}$ . If the optimizer consists of sampling elements, owing to the time-instability of the characteristics of coordinate storage devices an additional random interference appears, which during sampling is added to the sum of  $x_i = u_i + z_{oi}$  and of the sample signal  $\pm \alpha_{oi}$ . Owing to the same time-instability of storage elements, the derivatives also vary in time, so that the effect of interference is especially high for a large number of  $m$  inputs. For the above system of  $m$ -dimensional gradient system of automatic control the methods are given for determining the error  $\gamma$  of the sampling process by evaluating the mathematical expectation of a random quantity  $\gamma_n$ , determined as the arithmetical mean over the  $n$ -th sampling period. The results are used for determining  $\gamma$  for an object with a parabolic characteristic and the design procedure in determining the optimum parameters of the controlling device is given. The author acknowledges the help of A. A. Fel'dbaum. There are 5 figures and 5 Soviet-bloc references.

SUBMITTED: July 29, 1961

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Investigating a gradient automaton . . .

Fig. 1.

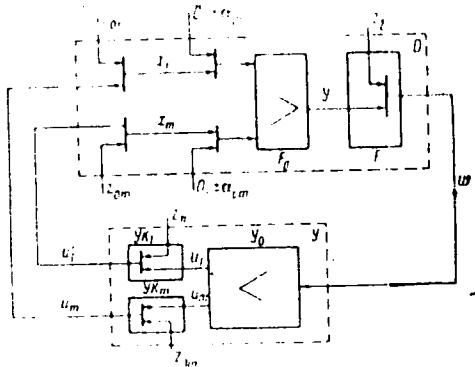


Fig. 1. Pic. 1

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PAULauskas, TS.TS. (Moskva)

A discrete automatic optimiser. Part 1. Avtom. i telez.  
23 no.5:610-619 My '62. (MIRA 15:5)  
(Automatic control)

PAULAUSKAS, TS.TS. (Moskva)

Investigation of a gradient automatic optimization system in the presence of random interference at the input and output of the object. Avtom. i telem. 23 no.1:34-44 Ja '62. (MIRA 15:1)  
(Automatic control)

S/103/62/023/005/007/011  
D407/D301

AUTHOR: Paulauskas, As.Ts. (Moscow)

TITLE: Discrete automatic optimizer. I

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 4, 1962,  
610 - 619

TEXT: A discrete automatic optimizer is described which is convenient in practice if the number of variables does not exceed 12, the function  $Q$  (the optimization criterion) has one extremum, and the restrictions  $H_i$  are given in the form of inequalities. The diagram

and the results of tests of the proposed optimizer are given. It consists of the operational device CD and of the control device CD. The mathematical operations and the storing of variables are performed by means of the operational device, whereas the control device performs the given algorithm of extremum search. The operating principle of the optimizer is as follows: With large distances from the minimum, the search is conducted by the method of steepest descents and with small distances by the method of gradient. In each case the search consists of 2 principal stages: a) Determination, by

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Discrete automatic optimizer. I

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means of trial signals, of the most convenient change in direction of the  $x_i$  coordinate; b) realization of the motion in the direction thus found. The optimization involves, in addition to the minimization of the criterion  $Q$ , also the minimization of the largest of  $H_j > 0$ , or of the sum of the  $H_j$  ( $j = 1, 2, \dots, m$ ). The optimizer channels consist of the storing-converting devices Y31T-i (UZP-1) ( $i = 1, 2, \dots, n$ ), each incorporating a reversible counter for storing the coordinates of the object, and registers for the partial derivatives and trial signals. The control device consists of a multi-channel commutator. As the design of the latter is of intrinsic interest (regardless of its use as a unit of the optimizer), its description is given separately. The main unit of the commutator is the transistor diode matrix M-D (M-D) which performs the operation of logical multiplication. The operating principle of the commutator is analogous to M.V. Wilkes - J.B. Stringer's micro-programming device (Ref. 13: Micro-Programming and the Design of the Control Circuits in an Electronic Digital Computer. Proc. Cambridge Philosoph. Soc., v. 49, pt. 2, April 1953). The model optimizer incorporates non-saturated flip-flops as well as saturated ones consisting Card 2/3

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of 2 inverters. The testing of the model yielded satisfactory results. The circuit incorporates 80 triodes - 15 (P 15), 6 triodes - 11 (P 11), and 300 diodes - 9E (D9V). All the resistors were of the type MFT -0.5 (MET-0.5), and the capacitors - of type C-4(KTK). There are 6 figures and 15 references: 12 Soviet-bloc and 3 non-Soviet-bloc.

SUBMITTED: December 14, 1961

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ACC NR: AR6035241

SOURCE CODE: UR/0372/66/000/008/G032/B032

AUTHOR: Paulauskas, Ts. Ts.; Vitkute, A. Yu.

TITLE: Determination of the structure and weight coefficients of pattern classifiers with statistically dependent signals

SOURCE: Ref. zh. Kibernetika, Abs. 8G202

REF SOURCE: Sb. Avtomatika i vychisl. tekhn. Vil'nyus, 1965, 23-29

TOPIC TAGS: signal processing, information processing, signal correlation

ABSTRACT: Problems of synthesizing classifiers depending on the nature of the information received from the analyzer are discussed. The structure and parameters are determined of a statistical classifier whose input signals are random variables which statistically depend on each other when their values are both 1 to 0, and even +1 or -1. In order to recognize patterns with statistically dependent parameters, it is necessary to take in addition to the weighted input signals, also their weighted double, triple, etc., products. In the transition from a system of input signals with 1-0 values to a (+1)-(-1) system, the block-

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UDC: 62-506;621.391.193

ACC NR: AR6035241

diagram of the classifier remains the same and only the expressions for the weight coefficients undergo a change. Three illustrations. [Translation of abstract]

SUB CODE: 09 /

[DW]

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KHESIN, R.B.; PETRASHKAYTE, S.K.; TOLYUSHIS, L.E.; PAULauskAYTE, K.P.

Protein synthesis in isolated cytoplasmic granules [with summary  
in English]. Biokhimia 22 no.3:501-515 My-Je '57. (MIRA 10:11)

1. Kafedra biokhimii Kaunaskogo gosudarstvennogo meditsinskogo  
instituta.

(PROTOPLASM,

synthesis of proteins in isolated cytoplasmic granules)  
(PROTEINS, metabolism,

synthesis in isolated cytoplasmic granules (Rus))